Wisconsin
Department of Commerce

Approval # 980012-U
(Replaces 920065-U)

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2689
Madison, WI 53701

Wisconsin
Material Approval

Material: Horner EZY 3
Nonvolumetric Tank Tightness Testing Method

Manufacturer: Horner Creative Products, Inc.
212 Morton Street
Bay City, Michigan 48706

SCOPE OF EVALUATION

The Horner EZY 3 negative pressure tank leak detection system, manufactured by Horner Creative Products has been evaluated in compliance with **s.ILHR 10.125** of the Wisconsin Flammable and Combustible Liquids Code. The system is approved for use in the State of Wisconsin in compliance with **s. ILHR 10.61 (3)**, subject to the limitations below.

DESCRIPTION AND USE

EZY 3 is a nonvolumetric tank tightness testing method that places the tank under negative pressure and measures pressure decay of the tank or water incursion. The system may be used for tanks containing gasoline, diesel fuel, aviation fuel, fuel oil #4, fuel oil #6, solvents, and waste oil.

Product temperature, vapor pockets, and tank deformation do not effect this test method.

A threshold value of pressure decay rate or a rate of water incursion of more than 0.05 gallon per hour is used to declare that a tank is leaking. Test results are considered to be inconclusive if the data is erratic.

Lengthening the duration of the test beyond the minimum is an acceptable deviation in the standard test protocol. The total time required for a test with this method, including equipment set up, data collection and equipment removal, is 3 hours.

If a leak is indicated, the leak could be located in any portion of the entire tank system including all pipes not isolated by valving. Additional testing may be needed to isolate the location of the leak. The ability of the EZY 3 to detect leaks in piping was not evaluated in accordance with the EPA protocol for that use and is not approved as a leak detection method for piping.

TESTS AND RESULTS

The performance of the EZY 3 was determined by William A. Kibbe & Associates in accordance with the EPA protocol for nonvolumetric tank testing methods. The EZY 3 was found to be capable of detecting a leak with a probability of false alarm (P(FA)) of 0 to 13.3 percent. The probability of detection (P(D)) of a 0.086 gallon per hour leak was found to 100 to 86.7 percent.

The EPA test procedure only addressed the issue of the method's ability to detect leaks and not for safety hazards.

LIMITATIONS

The Horner EZY 3 tank test system is approved for use as a method of tank tightness testing specified in **s. ILHR 10.61 (3)** for tanks 50,000 gallons or smaller, provided there is between 500 and 2,500 gallons of air space above the liquid level.

The procedure specified by Horner Creative Products shall be used to conduct all tests. The difference between the temperature of added product and in-tank product shall be no greater than + or - 15° F. The waiting time between filling the tank and the start of test data collection shall be at least 1 1/2 hours, including set-up time. The total time for data collection shall be at least 1 1/2 hours.

This approval will be valid through December 31, 2003, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Building Material Approval Number must be provided when building plans which include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: _____

Approval Date: _____ By: _____

Ms. Berni Mattsson, P.E.
Chief, Material Approval Unit
Program Development Bureau

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